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## (54) **MOTOR TOOTHBRUSH WITH VERTICAL MOTION BRISTLE**

(57)Abstract:

**PURPOSE:** To provide a motor toothbrush with vertical motion bristle easy to remove dental plaque without hurting a tooth and gingiva and with widely improved tooth-brushing efficiency, by directly or indirectly mounting bristle bundles on a wire- or band-shaped vibration transmission and amplification body, and transmitting vibration and giving vibration to an end of the amplification body by attaching them on the head part of a toothbrush handle.

**CONSTITUTION:** A bristle bundle 3 is indirectly mounted on a wire- or band- shaped vibration transmission and amplification body 6 putting a stem 4 out. Or, direct mounting on the vibration transmission and amplification body is also preferable. The vibration transmission and amplification body 6 is mounted on the head 2 of a tooth brush to give vibration to an end 6' of the wire- or band-shaped vibration transmission and amplification body 6. As a result, the wire- or band-shaped vibration transmission and amplification body vibrates and resonates and tips of individual bundles connecting thereof are respectively moved vertically by the vibration.

